



QUANTIC

The UK Quantum Technology Hub
in Quantum Enhanced Imaging



3D Pose Detection

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QuantIC has developed a machine learning approach for low-cost cameras to determine human poses. The combined sensor and algorithm can determine 3D positions for multiple individuals using only 16 pixels in real-time.

With significant applications human robot interaction, surveillance, and entertainment industries, the process of assessing motion via computer vision is a growing market space.

Using ultra low-cost sensors with minimal resolutions of only 16 pixels, our proposed Pixels2Pose system transforms optical time-of-flight data into 3D pose data via a neural network. Use of such simplistic sensors allow 3D recognition to integrate into numerous existing devices without additional cost, or detriment to producers.

For more information please contact:

Business Development Manager

Christopher.Payne-Dwyer@glasgow.ac.uk

Project Leads:

Dr Jonathan Leach

j.leach@hw.ac.uk

Alice Ruget

ar432@hw.ac.uk

